

# 3 mm Square Surface Mount Miniature Trimmer Single-Turn Cermet Sealed



#### **FEATURES**

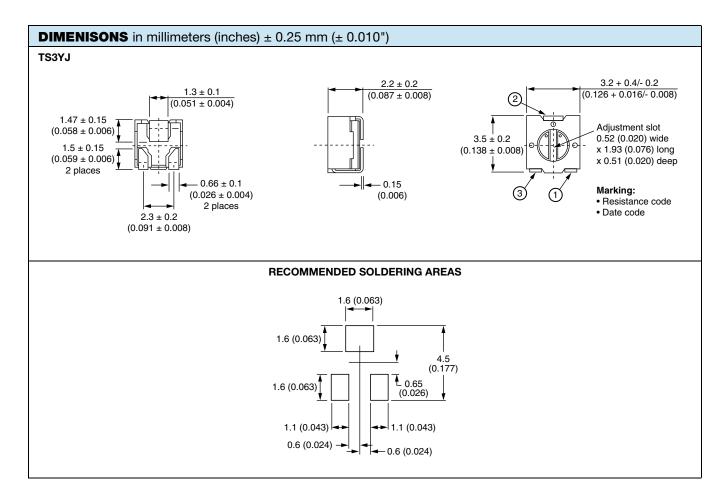




- · Small size for optimum packaging density
- RoHS
- · Suitable for both manual and automatic operations
- Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912"><u>www.vishay.com/doc?99912</u></a>

#### **LINKS TO ADDITIONAL RESOURCES**







ELECTRICAL SPECIFICATIONS		
Resistive element	Cermet	
Electrical travel	220°	
Resistance range	10 Ω to 2 MΩ	
Stocked range	1 kΩ to 100 kΩ	
Standard series	1 - 2 - 5	
Tolerance standard	± 20 %	
Circuit diagram	$ \begin{array}{c} \stackrel{a}{\bigcirc} \\ \stackrel{(1)}{\bigcirc} \\ \stackrel{b}{\bigcirc} \\ \stackrel{(2)}{\longrightarrow} \\ \stackrel{(2)}{\bigcirc} \\ \end{array} $	
Power rating	0.125 W at 70 °C	
Temperature coefficient (max.)	$\leq$ 100 $\Omega$ ± 150 ppm/°C/> 100 $\Omega$ ± 100 ppm/°C	
Limiting element voltage (max.)	200 V	
Contact resistance variation	3 % or 3 $\Omega$	
End resistance	1 % or 3 Ω	
Dielectric strength (RMS)	500 V (sea level)	
Insulation resistance (500 V <sub>DC</sub> )	100 ΜΩ	

MECHANICAL SPECIFICATIONS		
Mechanical travel	250°	
Operating torque (max. Ncm)	0.5	
End stop torque (min. Ncm)	2	
Unit weight (max. g)	0.1	
Mechanical life (cycles)	50	

#### Note

• Nothing stated herein shall be construed as a guarantee of quality or durability

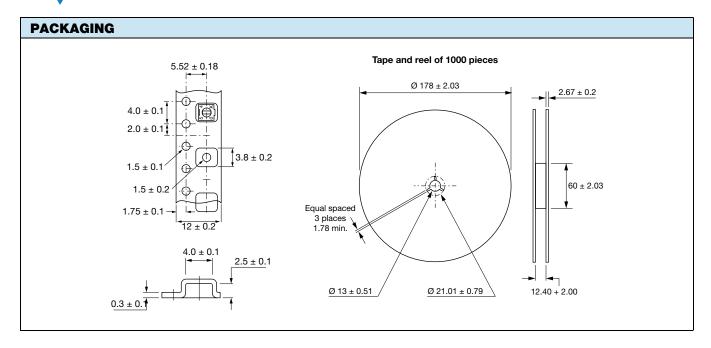
ENVIRONMENTAL SPECIFICATIONS		
Temperature range	-55 °C to +125 °C	
Sealing	Sealed container IP67	
MSL level	1	

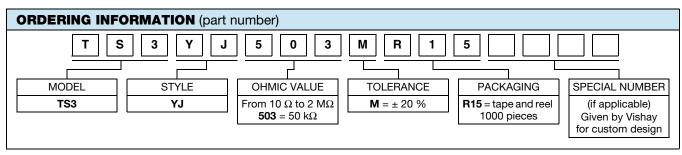
### **SOLDERING RECOMMENDATIONS**

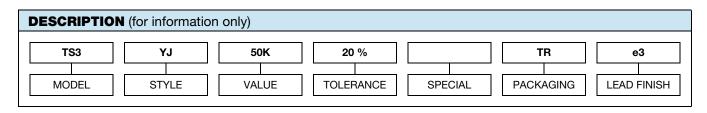
Recommended reflow profile 2, see Application Note www.vishay.com/doc?52029

STANDARD RESISTANCE ELEMENT DATA				
RESISTANCE	PART MARKING CODE	RESISTANCE CODE		
10	A1	100		
20	21	200		
50	51	500		
100	A2	101		
200	22	201		
500	52	501		
1K	A3	102		
2K	23	202		
5K	53	502		
10K	A4	103		
20K	24	203		
50K	54	503		
100K	A5	104		
200K	25	204		
500K	55	504		
1M	A6	105		
2M	26	205		

# Vishay Sfernice







RELATED DOCUMENTS			
APPLICATION NOTES			
Potentiometers and Trimmers	www.vishay.com/doc?51001		
Guidelines for Vishay Sfernice Resistive and Inductive Components	www.vishay.com/doc?52029		





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